## DECLARATION and POWER OF ATTORNEY

	ventor, I hereby declare that:				1						
My residence, post office address and citizenship are as stated below next to my name.											
I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:											
BIOCONVERSION OF A FERMENTABLE CARBON SOURCE TO 1,3-PROPANEDIOL BY A											
SINGLE MICROORGANISM											
the specification of which is attached hereto unless the following box is checked:											
was filed on as U.S. Application No or PCT International Application No and was											
amended on	(if applicable).										
I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any											
Yes the district a disclose information which is known to me to be material to patentability as defined in 37 CFR § 1.56.											
I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.											
Application No.	Country	ate	Priority Claimed (Yes/No)								
I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States Provisional Application(s) listed below.											
	U.S. Provisional Application No.		U.S.	. Filing Date							
I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or § 365(c) of any PCT International Application											
designating the United States, listed below and insolar as the subject hatter in the manner provided by the first paragraph of 35 U.S.C. & 112. I											
prior United States application of PC I international Application in the matter of the patentability as defined in 37 CFR § 1.56 which became											
available between the filing date of the prior application and the national of 101 international filing date of the prior application and the national of 101 international filing date of the prior application and the national of 101 international filing date of the prior application and the national of 101 international filing date of the prior application and the national of 101 international filing date of the prior application and the national of 101 international filing date of the prior application and the national of 101 international filing date of the prior application and the national of 101 international filing date of the prior application and the national of 101 international filing date of the prior application and the national of 101 international filing date of the prior application and the national of 101 international filing date of the prior application and the national of 101 international filing date of the prior application and the national of 101 international filing date of the prior application and the national of 101 international filing date of the prior application and the national of 101 international filing date of the prior application and the national date of the 101 international filing date of the prior application and the prior applicatio											
Application No.		iling Date May 1995	Similar (P	Pending	,						
08/440,293		_	7 2330								
POT/US96/06705 10 May 1996 Pending  POWER OF ATTORNEY: I hereby appoint the following attorney(s) and/or agent(s) the power to prosecute this application and transact all											
business in the Patent and Frademark Office connected dicrewidi.											
Name LINDA	A. FLOYD		Registration No.: 33,	692							
eja:											
Serid correspondence	e and direct B. I.	du Pont de Nemours and C	Tel. No.								
telephone calls to:		- Patents		(302) 992-4929							
LINDA	Δ HI ()YI) I	ington, DB 19898, U.S.A		1	of ore						
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are purishable by fine or improvement, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements											
may jeopardize the	validity of the application or any patent	issuing diereon.		· · · · · · · · · · · · · · · · · · ·	<del></del>						
		INVENTOR(		Middle Name	v-						
	Last Name LAFFEND	First Name		ANNE							
	Signature (please sign full name):	sa anne Lef	Ind	Date: May 30, 199	6						
Residence &	City	State or Foreign (	Tourntra: 'b	Country of Citizenship							
Citizenship	CLAYMONT	DELAWAR City	E DE	U.S.A. State or Country	Zip Code						
Post Office Address	Post Office Address 2 MOUNT VERNON DRIVE	CLAYMON	T	DELAWARE	19703						
Full Name	Last Name	First Name VASANTHA		Middle Name							
of Inventor			chararan	Date: May . 30 . 9	6						
		State or Foreign	<u> </u>	Country of Citizenship							
Residence & Citizenship	City WILMINGTON	DELAWAR	E 1) E	U.S.A.	7:- 0-4-						
Post Office	Post Office Address	City WILMING?		State or Country DELAWARE	Zip Code 19807						
Address Full Name	13 DICKINSON LANE Last Name 2-10	First Name	,	Middle Name	<del></del>						
of Inventor	NAKAMURA	CHARLES		Date: 0 / 20 1001	,						
	Signature please sign fifth name): Valcar	11 (ay 70, 1976									
Residence &	City	State or Foreign DELAWAR	Country	Country of Citizenship U.S.A.							
Citizenship Post Office	CLAYMONT Post Office Address	City		State or Country	Zip Code						
Post Office	2 MOUNT VERNON DRIVE	CLAYMON	T	DELAWARE	19703						

## (Conc. Several International Patent Applie

The undersigned, JAMES L. JERSILD, Vice Chairman of the Patent Board, of E. I. DU PONT DE NEMOURS AND COMPANY, 1007 Market Street, Wilmington, Delaware 19898 US, ("DuPont"), hereby confirms that the power to sign for DuPont has been granted to various individuals (as set forth in the attached excerpt from DuPont's Patent Board Rules of Procedure (Jan.1988), Appendix Section III.A.4), including the Chairman, Vice-Chairman and those individuals who are Assistant Secretaries of the Patent Board. Currently these Assistant Secretaries are:

Alanson G. Bowen, Jr. Theodore C. Gregory

Miriam D. Meconnahey

Nadine Lang

The present Vice Chairman of the Patent Board is JAMES L. JERSILD.

In addition, the authority to act on behalf of DuPont before the competent International Authorities in connection with any and all international patent applications filed by it with the United States of America as Receiving Office and to make or receive payments on its behalf is hereby granted to:

NAME	REG. #	NAME .	REG. #	NAME	REG. #
BIRCH, Linda D.	38,719	GORMAN, Thomas W.	31,959	MAYER, Nancy S.	29,190
BLACK, Robert W.	19,688	GOULD, David J.	25,338	McGEE, Patricia	37,391
BOWEN Jr., Alanson G.	24,027	GREGORY, Theodore C.	25,243	MEDWICK, George M.	27,456
BOYER, Michael K.	33,085	GRIFFITHS, John E.	32,647	MORRISSEY, Bruce W.	_30,663
BROWDER, Monte R.	36,761	HAMBY, Jane O.	32,872	SANTOPIETRO, Lois A.	36,264
BURGESS, Richard H.	22,292	HAMBY, William H.	31,521	SCHAEFFER, Andrew L.	_33,605
CAPLAN, Mark J.	33,661	HEISER, David E.	31,366	SCOTT, Patricia M.	33,068
CARROLL, Rodney B.	39,624	HENDRICKSON, John S.	30,847	SHAFER, Robert J.	24,437
CHRISTENBURY, Lynne M	. 30,971	HIGGS, W. Victor	25,877	SHIPLEY, James E.	32,003
COSTELLO, James A.	24,396	JACONETTY, Kenneth E.	32,508	SIEGELL, Barbara C.	30,684
DETTCH, Gerald E.	30,457	JERSILD, James L.	25,594	STEVENSON, Robert B.	26,039
DUFFY, Roseanne R.	33,869	KAEDING, Konrad S.	32,035	STRICKLAND, Frederick I	
DULL, John E.	20,822	KATZ, Elliott A.	26,396	SULLIVAN, Daniel W.	34,937
ESTRIN, Barry	26,452	KING, Karen K.	34,850	SUTHERLAND, Hoge T.	20,010
EVANS, Craig H.	31,825	KIRVAN, George E.	36,187	TESSARI, Joseph A.	32,177
FLOYD, Linda Axamethy	33,692	KLOCKO III, John J.	24,059	TOCKER, Edwin	20,341
FORSTNER, James A.	24,259	KRUKIEL, Charles E.	27,344	TULLOCH, Rebecca W.	36,297
FOWELL, Peter A.	36,512	LEVITT, Cary A.	31,848	WALKER, P. Michael	32,602
FRANK, George A.	27,636	LYNN, John M.	33,193	WEST Jr., Howard P.	22,500
FRICKE, Hilmar L.	22,384	MAGEE, Thomas H.	27,355	WESTPHAL, David W.	32,673
GOLIAN, Andrew G.	25,293	MALINOWSKI, Andrea V	7. 33,012	YUN, Caroline J.	34,952

The undersigned ratifies fully all actions already taken by the above-named individuals in accordance with the authority granted hereby.